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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/501,338	07/23/2004	Satoshi Sugiura	107156-00244	3659
4372	7590	10/18/2007		
ARENT FOX LLP 1050 CONNECTICUT AVENUE, N.W. SUITE 400 WASHINGTON, DC 20036			EXAMINER NGUYEN, JIMMY H	
			ART UNIT 2629	PAPER NUMBER
			NOTIFICATION DATE 10/18/2007	DELIVERY MODE ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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## Office Action Summary

**Application No.**

10/501,338

**Applicant(s)**

SUGIURA, SATOSHI

**Examiner**

Jimmy H. Nguyen

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 24 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 6-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 6-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. This Office Action is made in response to applicant's amendment filed on 08/24/2007.

Claims 6-29 are currently pending in the application. An action follows below:

#### *Drawings*

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the limitation, **"a transparent region is aligned with respective pixel of the plurality of pixels of the rear display surface"** in lines 17-19 of **claim 10** and lines 14-16 of **claim 20**, must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

*Claim Objections*

3. Claim 10 is objected to because of the following informalities: -- a direction of the image data being displayed on -- should be inserted immediately after “**with**” in line 13 of claim 10, in order to clarify the claimed invention. Appropriate correction is required.

4. Claim 20 is objected to because of the following informalities: -- a direction of the image data being displayed on -- should be inserted immediately after “**with**” in line 9 of claim 20, in order to clarify the claimed invention. Appropriate correction is required.

*Claim Rejections - 35 USC § 112*

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claims 6-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As to claims 10 and 20, these claims recite a limitation, “the rear display surface displaying substantially same image data” in lines 12-13 of claim 10 and line 8 of claim 20. Since it is not clear what the applicant means “**substantially same image data**”, i.e., the image data being displayed on the rear display surface being unchanged, it is considered that the invention is not clearly defined.

In addition to claim 10, this claim recites a limitation, “each of said plurality of pixels comprises at least one sub-pixel” in line 15. Since this claim recites a plurality of pixels of a front display surface of a front display device (line 10) and a plurality of pixels of a rear display surface of a rear display device (line 11), it is not clear that “**said plurality of pixels**” in the

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above underlined limitation refers to a plurality of pixels of a front display surface of a front display device, of a rear display surface of a rear display device, or of both display devices.

Accordingly, it is considered that the invention is not clearly defined.

As to claims 6-9, 11-19 and 21-29, since these claims depend upon either claim 10 or claim 20, these claims are rejected for the same reason set forth in claim 10 or claim 20 above.

In addition to claim 14, this claim recites the limitation "said first and second display devices" in line 2. There is insufficient antecedent basis for this limitation in the claim.

In addition to claims 16 and 17, these claims recite a limitation, "said image data" in line 2. Since newly amended claim 10 recites an image data being displayed on the front display surface and another image data being displayed on the rear display surface, it is not clear that "**said image data**" in claims 16 and 17 refers to an image data being displayed on the front display surface or an image data being displayed on the rear display surface. Accordingly, it is considered that the invention is not clearly defined.

In addition to claim 21, this claim recites a limitation, "the rearmost display device displaying substantially same image data" in lines 3-4. Since it is not clear what the applicant means "**substantially same image data**", i.e., the image data being displayed on the rearmost display surface being unchanged, it is considered that the invention is not clearly defined.

7. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

8. Claims 6-29 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not

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described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

As to claims 10, 20, 22 and 23, the disclosure, when filed, does not fairly convey to one of ordinary skill in the art that applicants had in their possession the claimed limitations, “said front display surface includes a displaying region corresponding to the plurality of pixels of said front display surface, and a transparent region that is adjacent to the display region and is aligned with respective pixel of the plurality of pixels of the rear display surface” presently recited in lines 16-19 of claim 10 and lines 13-16 of claim 20, “said front display surface includes more than one transparent regions, each of which is aligned with the respective plurality of pixels of subsequent display devices located behind the front display device” presently recited in claim 22, and “the transparent region of said front display surface has a width sufficient to be aligned with the respective plurality of pixels of subsequent display devices located behind the front display device” presently recited in claim 23. The original disclosure, see Figs. 2A, 2B and 3 and the corresponding description, explicitly teaches, e.g., a GREEN sub-pixel of the front display surface comprising a transparent region (W) aligned with a “G” display region of a GREEN sub-pixel of the rear display surface. Further, the above mentioned disclosure explicitly teaches each pixel of the rear display surface comprising three (R,G,B) sub-pixels and each sub-pixel of the rear display surface comprising a TFT region, a display region; and a shield region (best seen in Fig. 2b). In other words, **a transparent region (W) of each sub-pixel** of the front display surface is not aligned with the entire respective sub-pixel or the entire respective pixel of the rear display surface. Accordingly, the original

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disclosure does not contain such description and details regarding to the above underlined limitations, so as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

As to claims 6-9, 11-19 and 21-29, since these claims depend upon either claim 10 or claim 20, these claims are rejected for the same reason set forth in claims 10 and 20 above.

*Notice to Applicant*

9. Due to the above rejections under 35 USC 112, First and Second paragraphs, Examiner suggests the Applicant to review and/or rewrite all claims as necessary in order to avoid the unnecessary rejections and to speedily process this application forward.

10. Further, note that the original disclosure discloses **two distinct methods** for displaying an image, one corresponding to Figs. 14-15, for displaying **the same image data with different image brightness** on all display devices, and another corresponding to Figs. 16a-16, for displaying the split (different) image data on all display devices, wherein the split image data displayed on one of display devices is **different** from the split image data displayed on others of display devices. The original disclosure does not fairly describe a method combining two mentioned distinct methods.

*Response to Arguments*

11. Applicant's argument with respect to the rejection under 35 USC 112, second paragraph, in the previous Office action dated 05/24/2007, have been fully considered and are persuasive in light of cancellation of independent claim 1 and the amendment to independent claim 10. However, upon further consideration, the new grounds of rejections are made above.

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12. Applicant's argument with respect to the rejections under 35 USC 103(a) to claims 1-19, in the previous Office action dated 05/24/2007, have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jimmy H. Nguyen whose telephone number is 571-272-7675. The examiner can normally be reached on Monday - Thursday, 8:00 a.m. - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached at 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JHN  
October 9, 2007



Jimmy H. Nguyen  
Primary Examiner  
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